

### THE CLAIMS

1. (Previously presented) An internal imaging probe including:
  - a rotating endoscope shaft having an imaging element;
  - a fixed endoscope shaft;
  - a driving cog wheel; and
  - a driven cog wheel attached to said rotating endoscope shaft;said driving cog wheel operatively engaging said driven cog wheel to rotate said rotating endoscope shaft relative to said fixed endoscope shaft.
2. (Original) The probe of claim 1 further including a control handle, wherein said control handle includes said fixed endoscope shaft.
3. (Original) The probe of claim 1 further including a control handle, wherein a portion of said fixed endoscope shaft protrudes from said control handle.
4. (Original) The probe of claim 1, wherein said motor is located within said fixed endoscope shaft.
5. (Original) The probe of claim 2, wherein said motor is located within said fixed endoscope shaft.
6. (Original) The probe of claim 3, wherein said motor is located within said fixed endoscope shaft.

7. (Original) The probe of claim 1 further including an O-ring forming a seal between said rotating endoscope shaft and said fixed endoscope shaft.

8. (Original) A medical imaging system including a probe for imaging internal structures of a patient, said probe including:

- a rotating endoscope shaft having an imaging element;

- a fixed endoscope shaft;

- a motor affixed to said fixed endoscope shaft;

- a driving cog wheel attached to said motor; and

- a driven cog wheel attached to said rotating endoscope shaft;

said driving cog wheel operatively engaging said driven cog wheel to rotate said rotating endoscope shaft relative to said fixed endoscope shaft.

9. (Original) The probe of claim 8 further including a control handle, wherein said control handle includes said fixed endoscope shaft.

10. (Original) The system of claim 8 further including a control handle, wherein a portion of said fixed endoscope shaft protrudes from said control handle.

11. (Original) The probe of claim 8, wherein said motor is located within said fixed endoscope shaft.

12. (Original) The probe of claim 9, wherein said motor is located within said fixed endoscope shaft.

13. (Original) The probe of claim 10, wherein said motor is located within said fixed endoscope shaft.

14. (Original) The system of claim 8 further including an O-ring forming a seal between said rotating endoscope shaft and said fixed endoscope shaft.

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)